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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/037,942	01/03/2002	Alain M. Sagnard	61301A	7761
109	7590 01/10/2006		EXAMINER	
THE DOW	CHEMICAL COMPAN	RHEE, JANE J		
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	· A	pplication No.	Applicant(s)	<u> </u>
Office Action Summary		0/037,942	SAGNARD ET	AL.
		kaminer	Art Unit	
	Ja	ne Rhee	1745	
The MAILING DATE of this c Period for Reply	ommunication appear	s on the cover sheet	with the correspondence	address
A SHORTENED STATUTORY PEI WHICHEVER IS LONGER, FROM - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date of - If NO period for reply is specified above, the m - Failure to reply within the set or extended perion - Any reply received by the Office later than thre earned patent term adjustment. See 37 CFR 1	THE MAILING DATE provisions of 37 CFR 1.136(a) this communication. aximum statutory period will apid for reply will, by statute, caue months after the mailing date	E OF THIS COMMU In no event, however, may oply and will expire SIX (6) No se the application to become	NICATION. y a reply be timely filed MONTHS from the mailing date of this a ABANDONED (35 U.S.C. § 133).	
Status	<u>!</u>			
 1) Responsive to communication 2a) This action is FINAL. 3) Since this application is in concluded in accordance with the 	2b)☐ This act	tion is non-final. except for formal m	•	the merits is
Disposition of Claims	•			
4) Claim(s) 1-4,6-12,15-22 is/ar 4a) Of the above claim(s) 5) Claim(s) is/are allowe 6) Claim(s) 1-4,6-12,15-22 is/ar 7) Claim(s) is/are objecte 8) Claim(s) are subject to Application Papers 9) The specification is objected 10) The drawing(s) filed on Applicant may not request that a	is/are withdrawn for d. The rejected. The rejected of the restriction and/or elected of the restriction and restri	rom consideration. ection requirement. ed or b) □ objected		·
Replacement drawing sheet(s) if	ncluding the correction	is required if the draw	ing(s) is objected to. See 37	CFR 1.121(d).
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a) All b) Some * c) No 1. Certified copies of the	ne of: priority documents ha priority documents ha copies of the priority ternational Bureau (P	ave been received. ave been received in documents have be CT Rule 17.2(a)).	n Application No een received in this Nation	nal Stage
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Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing II 3) Information Disclosure Statement(s) (PTO Paper No(s)/Mail Date		Paper I	ew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (I 	PTO-152)

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DETAILED ACTION

Rejections Withdrawn

- 1. The 35 U.S.C. 103(a) rejection of claims 1-4, 6-9, 11,21,22 over Walendy et al. has been withdrawn due to applicant's amendment filed on 10/17/2005.
- 2. The 35 U.S.C. 103(a) rejection of claims 5 and 10 over Walendy et al. in view of Ducharme has been withdrawn due to applicant's amendment filed on 10/17/2005.
- 3. The 35 U.S.C. 103(a) rejection of claim 12 over Walendy et al. in view of Friedl et al. has been withdrawn due to applicant's amendment filed on 10/17/2005.
- 4. The 35 U.S.C. 103(a) rejection of claim 15 over Walendy in view of Grinshpun et al. has been withdrawn due to applicant's amendment filed on 10/17/2005.
- 5. The 35 U.S.C. 103(a) rejection of claims 16-20 over Walendy et al. in view of Park has been withdrawn due to applicant's amendment filed on 10/17/2005.

New Rejections

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 1-4,6-11,21,22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Walendy et al. (5529824) in view of Ducharme (5062244).

As to claim 1, Walendy et al. discloses a building panel comprising at least two panel domains (figure 2 numbers 4,3), wherein each panel domain has an essentially homogeneous strength and an average compressive strengths (col. 3 lines 42-64) wherein the panel has at least two panel domains having different average compressive strengths (col. 3 lines 42-64) is essentially free of a combination of hollow and solid foam strands, a uniform panel thickness (figure 2), fits fully within a cavity defined by cavity walls (col. 3 lines 21-23), and when in the cavity, the building panel has a compressive recovery that supplies sufficient pressure against the cavity walls to frictionally retain the building panel within the cavity (col. lines 27-28) wherein the panel has an edge containing a panel domain extending from a primary face to an opposing face (figure 2).

As to claim 3, Walendy et al. discloses wherein at least one panel domain is a comformable panel domain that when compressed reduces at least one dimension of the panel thereby allowing insertion of the panel into the cavity, wherein the panel has a compressive recovery that causes frictional retention of the panel within the cavity (col. 3 lines 27-28).

As to claim 4, Walendy et al. discloses at least one panel domain that is a conformable panel domain that allows the panel to reversibly bend from a planar to a nonplanar configuration (figure 2 number 4).

As to claim 6, Walendy et al. discloses that the panel has alternating conformable and rigid panel domains (figure 2 number 3,4).

As to claim 7, Walendy et al. discloses that the panel has a perimeter and the perimeter comprises at least one conformable panel domain (figure 2 number 4).

As to claim 8, Walendy et al. discloses a conformable panel along at least one edge (figure 2 number 4).

As to claim 9, Walendy et al. discloses that the panel domains are bands (figure 2 numbers 4,3).

As to claims 11, Walendy et al. discloses that at least one panel domain comprises a polymeric foam (col. 3 lines 43).

As to claim 21, Walendy et al. discloses that at least one edge of the panel is a conformable domain (figure 2 numbers 4).

As to claim 22, Walendy et al. discloses that the panel domains extend through the thickness of the panel (figure 2 number 3,4).

As to claim 1, Walendy et al. fail to disclose that the pressure being 100 Newtons per square meter or more and 200,000 Newton per square meter or less. Walendy et al. discloses a cavity defined by cavity walls that has a compressive recovery that supplies sufficient pressure against the cavity walls to frictionally retain the building panel within the cavity (col. 2 lines 65-66). It would have been obvious to one having ordinary skill in the art at the time applicant's invention was made to provide Walendy et al. with a compressive recovery that supplies sufficient pressure against the cavity walls to frictionally retain the building panel within the cavity, the pressure being 100 Newtons per square

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meter or more and 200,000 Newton per square meter or less in absence of unexpected results.

Walendy et al. further fails to disclose that the panel has a slit penetrating to a depth less than the panel thickness traverses and severs the primary faces or the face opposing the primary face.

Durcharme teaches that the panel has a slit penetrating to a depth less than the panel thickness traverses and severs the primary faces or the face opposing the primary face (figure 1 number 28 or 29) for the purpose of providing lateral compression over the full height of the insert, thereby enabling the insert to conform to the cores of different sizes and shapes (col. 3 lines 8-11).

Therefore, it would have been obvious to one having ordinary skill in the art at the time applicant's invention was made to provide Walendy et al. with a slit penetrating to a depth less than the panel thickness traverses the primary faces or the face opposing the primary face in order to provide lateral compression over the full height of the insert, thereby enabling the insert to conform to the cores of different sizes and shapes (col. 3 lines 8-11) as taught by Durcharme.

As to claim 2, Walendy et al. fail to disclose that at least two domains differ in average compressive strength by at least 5%. Walendy discloses that one of the two panel domains is made of foam and the other panel domain is made of cardboard (col. 3 lines 42-50) therefore, it would have been obvious to one having ordinary skill in the art at the time applicant's invention was made to provide at least two domains differ in average compressive strength by at least 5%.

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As to claim 10, Walendy fail to disclose that the panel has at least one edge that comprises a tongue or groove profile. Durcharme teaches that the panel has at least one edge that comprises a tongue or groove profile for the purpose of enabling the panel to conform to the cores of different sizes and shapes (col. 4 lines 55-58).

Therefore, it would have been obvious to one having ordinary skill in the art at the time applicant's invention was made to provide Walendy et al. with a tongue or groove profile in order to enable the panel to conform to the cores of different sizes and shapes (col. 4 lines 55-58) as taught by Durcharme.

6. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Walendy et al. in view of Durcharme and in further view of Friedl et al. (5993932).

Walendy and Durcharme discloses the panel described above. Walendy fail to disclose that each of the panel domain comprises a polymeric foam. Friedlet al. teaches that each of the panel domains comprises polymeric foam for the purpose of to reduce the dimensioning of the thermal insulating layer in vehicle interiors thus achieving material and cost saving(col. 3 lines 13-16).

Therefore, it would have been obvious to one having ordinary skill in the art at the time applicant's invention was made to provide Walendy with each of the panel domains comprises polymeric foam in order to reduce the dimensioning of the thermal insulating layer in vehicle interiors thus achieving material and cost saving (col. 3 lines 13-16) as taught by Friedl et al.

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8. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Walendy et al. in view of Durcharme and in further view of Grinshpun et al. (6226943).

Walendy et al. and Durcharme discloses the panel described above.

Walendy et al. fail to disclose that at least one panel domain has an open cell content of 5 percent or 50 percent or more according to American Society for Testing and Materials method D2856A. Grinshpun et al. teaches disclose that at least one panel domain has an open cell content of 5 percent or 50 percent or more according to American Society for Testing and Materials method D2856A (col. 5 lines 42-48) for the purpose of obtaining desired insulating properties of the foam (col. 5 lines 54-55).

Therefore, it would have been obvious to one having ordinary skill in the art at the time applicant's invention was made to provide Walendy et al. with at least one panel domain has an open cell content of 5 percent or 50 percent or more according to American Society for Testing and Materials method D2856A in order to obtain desired insulating properties of the foam (col. 5 lines 54-55).

9. Claims 16-17,19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Walendy et al. in view of Durcharme and in further view of Park (WO0015697).

Walendy et al. and Durcharme discloses the panel described above.

Walendy et al. fail to disclose that at least one panel domain comprises

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coalesced polymeric foam strands and wherein the foam strands comprise polypropylene. Walendy et al. fail to disclose that at least one panel domain comprises coalesced polymeric foam strands having interstrand spaces.

Walendy et al. fail to disclose foam's average cell diameter within the range of 0.01 to 10mm.

Park teaches coalesced polymeric foam strands that comprise polypropylene (page 4 line 12) and have interstrand spaces (page 9 line 30), an open cell content of 84 percent with diameter of .4mm (page 21 lines 26-29) for the purpose providing sound deadening properties satisfactory for demanding applications which have mechanical strength, which are economical to manufacture and which are hydrolytically stable.

Therefore, it would have been obvious to one having ordinary skill in the art at the time applicant's invention was made to provide Walendy et al. with coalesced polymeric foam strands that comprise polypropylene and have interstrand spaces, an open cell content of 84 percent with diameter of .4mm in order to provide sound deadening properties satisfactory for demanding applications which have mechanical strength, which are economical to manufacture and which are hydrolytically stable (page 2 lines 19-21) as taught by Park.

Allowable Subject Matter

7. Claim 18 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art fail to

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disclose or suggest at least one panel domain that comprise coalesced polymeric foam strands having interstrand spaces.

Response to Arguments

8. Applicant's arguments filed 10/17/2005 have been fully considered but they are not persuasive.

In response to applicant's argument that the slit must facilitate bending of the panel into a non-planar configuration, the slit does not have to facilitate bending of the panel into a non planar configuration. First of all, the asserted functional definition provided by the applicant, "such slits facilitate bending a building panel into a non-planar configuration" does not connote that the "slits must facilitate bending of the panel into a non-planar configuration. The slits just increase the likelihood of bending the panel into a non-planar configuration and not positively bend the panel into a non-planar configuration. Secondly, the limitation that the slits facilitate bending a building panel into a non-planar configuration is not addressed in claims therefore, the slits do not have to bend the panel into a non-planar configuration.

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5

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USPQ2d 1596 (Fed. Cir. 1988)and In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, Walendy et al. discloses a foam insert for a hollow space (figure 2) and Ducharme discloses a foam insert for a hollow space (figure 1). Walendy et al. further fails to disclose that the panel has a slit penetrating to a depth less than the panel thickness traverses and severs the primary faces or the face opposing the primary face. Durcharme teaches that the panel has a slit penetrating to a depth less than the panel thickness traverses and severs the primary faces or the face opposing the primary face (figure 1 number 28 or 29) for the purpose of providing lateral compression over the full height of the insert, thereby enabling the insert to conform to the cores of different sizes and shapes (col. 3 lines 8-11). Therefore, it would have been obvious to one having ordinary skill in the art at the time applicant's invention was made to provide Walendy et al. with a slit penetrating to a depth less than the panel thickness traverses the primary faces or the face opposing the primary face in order to provide lateral compression over the full height of the insert, thereby enabling the insert to conform to the cores of different sizes and shapes (col. 3 lines 8-11) as taught by Durcharme.

In response to applicant's argument that Walendy et al. fail to disclose that the panel domains extend through the thickness of the panel, Walendy et al. teaches that the panel domains extend through the thickness of the panel in figure 2 numbers 3 and 4. Applicant did not claim that the panels had to extend entirely through the thickness of the panel.

Conclusion

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jane Rhee whose telephone number is 571-272-1499. The examiner can normally be reached on M-F 9-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jane Rhee

December 29,2005

DAH-WEIYUAN PRIMARY EXAMINER